

### ABSTRACT OF THE DISCLOSURE

In correcting the sound field, loudspeakers  $6_{FL}$  to  $6_{WF}$  are sounded by the noise. The attenuation factors of the inter-band attenuators  $ATF_{11}$  to  $ATF_{ki}$  for adjusting gains of the band-pass filters  $BPF_{11}$  to  $BPF_{ki}$  to the frequency in respective channels are corrected based on detection results of the reproduced sounds of the loudspeakers  $6_{FL}$  to  $6_{WF}$ . The attenuation factors of channel-to-channel attenuators  $ATG_1$  to  $ATG_5$  are corrected based on the detection results of the reproduced sounds of the loudspeakers  $6_{FL}$  to  $6_{WF}$ . The delay times of delay circuits  $DLY_1$  to  $DLY_5$  are corrected based on the detection results of the reproduced sounds of the loudspeakers  $6_{FL}$  to  $6_{WF}$ . The attenuation factor of a channel-to-channel attenuator  $ATG_k$  is corrected based on the detection result of the reproduced sound of the loudspeaker  $6_{WF}$  as the subwoofer. Therefore, the levels of the reproduced sounds reproduced by the loudspeakers  $6_{FL}$  to  $6_{WF}$  are adjusted to be made flat over the audio frequency band.